

2023

APS/CNM  
USERS MEETING



## Exhibitors

- ANCORP
- Anderson Dahlen, Inc.
- Applied Diamond, Inc.
- DECTRIS Ltd.
- Huber Diffraction USA
- KOHZU Precision c/o Daniel F Crews, LLC
- MW Components
- OMS Motion Inc.
- Rayonix, L.L.C.
- Sydor Technologies
- TecRep Corporation
- Teledyne Princeton Instruments
- XGLAB
- XIA LLC
- X-Spectrum GmbH

**ANCORP**

707 Southwest 19<sup>th</sup> Avenue  
Williston, FL 32696  
Tel: (352) 528-7857  
[www.ancorp.com](http://www.ancorp.com)



Manufacturer of high and ultra-high vacuum components since 1965, ANCORP (formerly A&N Corporation) offers an extensive line of vacuum flanges, fittings, feedthroughs, traps, viewports, valves, chambers, and custom fabrications to researchers, OEMs, and industrial users around the world. ANCORP is a North American distributor of VAT vacuum valves and the exclusive global distributor of LOS Low Outgassing Solutions UHV/XHV-compatible bimetal, titanium, and aluminum flanges, fittings, and custom fabrications. ANCORP products meet or exceed the standards required by our customers, such as those involved with thin film deposition, surface analysis, laser devices, cryogenics, and the aerospace industry.

**Anderson Dahlen, Inc.**

6850 Sunwood Dr. NW  
Ramsey, MN 55303  
Tel: (763) 852-4700  
[www.andersondahlen.com](http://www.andersondahlen.com)



At Anderson Dahlen, we can manufacture custom UHV chambers of any size or complexity. We focus on four major areas of customization: size, finish, features, and components. To ensure we meet and exceed your project requirements, we'll introduce you to our engineering group to assist with all design considerations. We've produced everything from one-of-a-kind research chambers for national labs and universities to production volume chambers for world-class equipment manufacturers.

**Applied Diamond, Inc.**

3825 Lancaster Pike  
Wilmington, DE 19805-1559  
Tel: (302) 999-1132  
[www.usapplieddiamond.com](http://www.usapplieddiamond.com)



Applied Diamond, Inc. manufactures parts made from single crystal and polycrystalline diamond. Our products include brazed windows, filters, detectors, beam monitors, and heat spreaders. We are a US-based manufacturer located in Wilmington, DE. We have been supplying diamond parts to synchrotrons since 2004. Our capabilities include diamond growth, polishing, etching, metalization, brazing and laser cutting.

**DECTRIS Ltd.**

Taefernweg 1  
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Switzerland  
Tel: +0565002137  
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**DECTRIS**  
detecting the future

DECTRIS develops and manufactures the most accurate X-ray and electron cameras to spark scientific breakthroughs around the world.

**Huber Diffraction USA**

25266 Brigantine Dr.  
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Tel: (949) 391-7755  
[www.xhuber.com](http://www.xhuber.com)



HUBER Diffractionstechnik GmbH designs and manufactures high-precision positioning systems primarily used for x-ray diffraction in laboratories and at synchrotron beam sources. Other application fields are diffraction experiments with neutrons, laser technology, astronomy, and precise measurement technology. Your Decision for Precision.

**KOHZU Precision & LAB Motion System**

c/o Daniel F. Crews, LLC

P.O. Box 2804  
Evergreen, CO 80437-2804  
Tel: (303) 944-1082  
[www.dfcrews.com](http://www.dfcrews.com)



**DANIEL F CREWS, LLC**

KOHZU Precision Co., Ltd. is celebrating 60 years of manufacturing reliable, high-end production quality, cost effective, linear stages (X, XY), rotary axes (R), vertical lift stages (zed axis, Z), stacked, swivel or goniometer stages (tip/tilt) for atmospheric, cleanroom and vacuum environments. Stages are available with manual micrometers or stepper motors (motorized). KOHZU also manufactures 3-axis & 6-axis alignment stations, metrology & synchrotron equipment. LAB Motion Systems is a 15+ year-old company that is a world-class manufacturer of air bearing products: nano-precision rotary stages, linear stages and complex multi-axis systems. LAB's RT150U with sub-20nm motion errors is a world-class, industry leading stage. One of LAB's industry advantage is high-performance in compact form factors.

**MW Components**

3426 Toringdon Way, Suite 100  
Charlotte, NC 28277  
Tel: (704) 837-0331  
[www.mwcomponents.com](http://www.mwcomponents.com)

MW Components is focused on accelerating the entire process of delivering custom, stock, and standard parts to virtually any volume and against demanding deadlines. We have over 20 locations nationwide, including Servometer for electro-deposited metal bellows, MW Components - Ormond Beach, formerly known as Bellowstech; MW Components - Corona, formerly known as Ameriflex; and MW Components - Santa Maria, formerly known as Heli-Cal Products. Widely known



## MW Components

for producing parts of exceptional quality, these locations produce edge-welded bellows, and hydroformed bellows, mechanically formed bellows, and elastomer bellows, along with machined springs, u-joints, and flexible shaft couplings. In addition to a wide range of stock parts, we manufacture highly-engineered custom and specialty components including metal bellows, machined springs, flexible shaft couplings, springs, fasteners, stampings, wire forms, and more. Our components are often found in dynamic and flexible seals, flexible connectors, hydraulic actuators, motion control, pulse dampers, valves, volume compensators, and other pressure and temperature-sensitive applications. We work to highly complex tolerances. We help simplify the management of any number of different components. And we take a no-compromise approach to quality. With MW Components you can be sure you'll get the right part to the right specification when and where you need it.

### OMS Motion, Inc.

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OMS Motion has been producing motion controls for 40 years. Originally founded in the early 80's as Oregon Micro Systems, OMS developed patented technology that provides advantages in the motion control industry. The core products include multi-axis controllers up to 10-axes, fully coordinated and synchronized, as well as single-axis integrated drive/controllers. OMS Motion has the experience, proven reliability and performance that has gained the confidence of engineers and scientists worldwide. OMS Motion found success in markets around the world, including semiconductor equipment, lab automation and life science instruments, factory automation, large- and small-scale research facilities/projects, astronomy research and others. Currently there are OMS products in use around the world, on every continent and several countries, supporting mission critical applications. OMS products are proven and help enable the creation of great products and processes. OMS Motion's products were designed to be easy to commission while providing superior performance. The use of advanced components allows OMS to avoid excess overhead and produce very effective performance. The company's strong commitment to their customers success has manifested the support of some individual product applications for more than 28 years, which is no

	<p>easy task. OMS Motion firmly believes in doing the right thing, which is a testament to how they have had 40-years of success.</p>
<p><b>Rayonix, L.L.C.</b>  1880 Oak Ave., Suite 120  Evanston, IL 60201  Tel: (847) 869-1548  <a href="http://www.rayonix.com">www.rayonix.com</a></p> 	<p>Rayonix, L.L.C. supplies reliable, high performance x-ray detectors for use at XFELs and synchrotrons. The newest product, the Manta, is a gain-switching hybrid pixel array x-ray detector, ideal for high dynamic range XFEL and synchrotron applications. This desperately needed x-ray detector is based on the ePix10K ASIC developed at SLAC.</p>
<p><b>Sydor Technologies</b>  78 Schuyler Baldwin Drive  Fairport, NY 14450  Tel: (585) 278-1168  <a href="http://www.SydorTechnologies.com">www.SydorTechnologies.com</a></p> 	<p>Sydor Technologies is a global leader in providing complex measurement solutions that generate critical results for the world's most advanced applications in the defense, energy, ballistics, security, space, and research industries. Established in 2004, Sydor Technologies is headquartered in Rochester, NY and now supplies systems and support in over 33 countries. For more information please contact <a href="mailto:info@sydortechonologies.com">info@sydortechonologies.com</a>.</p>
<p><b>TecRep Corporation</b>  1919 S. Highland Avenue  Building A, Suite 330  Lombard, IL 60148  Tel: (630) 627-9110  <a href="http://www.tec-rep.com">www.tec-rep.com</a></p> 	<p>TEST INSTRUMENTS · POWER SUPPLIES · ENVIRONMENTAL · DATA ACQUISITION  Manufacturer's Representative Serving the Midwest for Over 30 Years. Exclusively representing the following manufacturers: Yokogawa, Teledyne LeCroy, TDK-Lambda High Power, Cincinnati Sub-Zero (CSZ), Emcor Enclosures, Pacific Power Source, Teledyne SP Devices, and more.</p>
<p><b>Teledyne Princeton Instruments</b>  3660 Quakerbridge Road  Trenton, NJ 08619  Tel: (609) 587-9797  <a href="http://www.princetoninstruments.com">www.princetoninstruments.com</a></p> 	<p>Teledyne Princeton Instruments (TPI), a business unit of Teledyne Digital Imaging US, Inc, designs and manufactures high-performance CCD, sCMOS, ICCD, EMCCD, emICCD, and InGaAs cameras; spectrographs; and optics-based solutions for the scientific research, industrial imaging, and OEM communities. We take pride in partnering with our customers to solve their most challenging problems in unique, innovative ways.</p>

**XGLAB**

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XGLab is a leading provider of innovative readout electronics for radiation detectors and instrumentation for X and Gamma ray applications. XGLab was started up in 2009 as a spin-off company of Politecnico di Milano, the university where Emilio Gatti – the inventor with Pavel Rehak of the Silicon Drift Detectors (SDD) – held a full professorship in Electronics. Basing on the deep knowledge on radiation detection and nuclear electronics, XGLab keeps innovating the world of detectors and low-noise electronics for radiation sensing. After the introduction of CUBE, the disruptive CMOS preamplifier for radiation detectors (e.g. SDD, HpGe), XGLab is now introducing DANTE, the Digital Pulse Processor for high count rate spectroscopy. DANTE enables faster analyses over a wide energy range with the best-in-class spectral purity performance. Future advances in material and life-science research will require new improvements in X and Gamma ray instrumentation. XGLab's mission is to develop innovative readout solutions to continuously challenge the state-of-the-art of radiation detection.

**XIA LLC**

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*Instruments That Advance The Art*

XIA LLC invents, develops, and markets advanced digital pulse processing and data acquisition electronics for use with x-ray and gamma-ray detectors in industry, university research and National Labs. We are technology leaders in high-rate spectroscopy electronics at synchrotron facilities around the world, as well as a major OEM supplier for compact low power handheld and benchtop spectroscopy instruments.

**X-Spectrum GmbH**

Luruper Hauptstraße 1  
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We are a full-service detector company which provides off-the-shelf and custom detector solutions. Our detectors can be used for a variety of scientific experiments on advanced X-ray sources and in electron microscopes. X-Spectrum is a spin-off of DESY in Hamburg Germany. We offer several product lines: LAMBDA for X-ray sciences AMBER for electron microscopes SPARTA for high-speed measurements. All our detectors offer high spatial resolution high sensitivity (with CdTe sensor even at 100 keV or more) and extremely high speed (up to 24 kHz for LAMBDA and AMBER 6.5 MHz for SPARTA).

